

Standard non-50 ohm impedance Semi-Rigid Cables

| CarlisleIT Description | | UT-020-13 | UT-085C-15 | UT-141C-15 | UT-034C-17 | UT-062-18 |
|--|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| CarlisleIT Description (Tin Plated) | | UT-020-13-TP | UT-085C-15-TP | UT-141C-15-TP | UT-034C-17-TP | UT-062-18-TP |
| Dimensions | | Units | | | | |
| Outer Conductor Diameter (+ 0.001 inch for tin plate) | inch | 0.023 ± 0.001 | 0.0865 ± 0.0010 | 0.141 ± 0.001 | 0.034 ± 0.001 | 0.062 ± 0.001 |
| | millimeter | 0.584 ± 0.025 | 2.197 ± 0.025 | 3.581 ± 0.025 | 0.864 ± 0.025 | 1.575 ± 0.025 |
| Center Conductor Diameter | inch | 0.0126 ± 0.0005 | 0.0453 ± 0.0005 | 0.0800 ± 0.0010 | 0.0159 ± 0.0005 | 0.0320 ± 0.0005 |
| | millimeter | 0.3200 ± 0.0127 | 1.1506 ± 0.0127 | 2.0320 ± 0.0254 | 0.4039 ± 0.0127 | 0.8128 ± 0.0127 |
| Straight Length (Maximum) | feet | 10 | 20 | 20 | 15 | 20 |
| | meter | 3.05 | 6.10 | 6.10 | 4.57 | 6.10 |
| Materials | | | | | | |
| Outer Conductor | | Copper | Copper | Copper | Copper | Copper |
| Outer Conductor Plating | | None | None | None | None | None |
| Dielectric | | PTFE | PTFE | PTFE | PTFE | PTFE |
| Center Conductor | | SPCW | SPC | SPC | SPC | SPCW |
| RoHS Compliant | | Yes | Yes | Yes | Yes | Yes |
| Mechanical Characteristics | | | | | | |
| Outer Conductor Integrity Temp. | °C | 125 | 150 | 175 | 175 | 150 |
| Operating Temperature (Max.) | °C | 100 | 125 | 150 | 150 | 125 |
| Inside Bend Radius (Minimum) | inch | 0.050 | 0.250 | 0.188 | 0.125 | 0.125 |
| | millimeter | 1.270 | 6.350 | 4.775 | 3.175 | 3.175 |
| Weight | lbs/100 ft | 0.13 | 1.83 | 4.74 | 0.28 | 0.87 |
| | kg/100 m | 0.20 | 2.75 | 7.12 | 0.42 | 1.31 |
| Electrical Characteristics | | | | | | |
| Characteristic Impedance | ohm | 13.0 ± 3.0 | 15.0 ± 1.0 | 15.0 ± 1.0 | 17.0 ± 1.0 | 18.0 ± 2.0 |
| Capacitance | pF/ft | 111.6 | 96.7 | 96.7 | 85.3 | 80.6 |
| | pF/m | 366.1 | 317.3 | 317.3 | 280.0 | 264.4 |
| Velocity of Propagation | % | 70 | 70 | 70 | 70 | 70 |
| Corona Extinction Voltage | VRMS @ 60 Hz | 150 | 850 | 750 | 200 | 1100 |
| Voltage Withstanding | VRMS @ 60 Hz | 600 | 2400 | 3900 | 1200 | 2100 |
| Higher Order Mode Frequency | GHz | 178 | 47 | 27 | 129 | 65 |
| Attenuation (dB/100 ft, Typical) | 0.5 GHz | 112.2 | 24.4 | 15.0 | 55.5 | 29.8 |
| | 1.0 GHz | 158.9 | 34.7 | 21.4 | 78.7 | 42.4 |
| | 5.0 GHz | 357.5 | 79.9 | 50.2 | 178.3 | 97.0 |
| | 10.0 GHz | 508.0 | 115.5 | 73.4 | 254.6 | 139.6 |
| | 18.0 GHz | 685.4 | 158.7 | 102.2 | 345.4 | 191.1 |
| | 26.5 GHz | 835.5 | 196.4 | 127.9 | 422.9 | 235.8 |
| | 40.0 GHz | 1,032.7 | 247.5 | - | 525.8 | 295.9 |
| | 50.0 GHz | 1,159.0 | - | - | 592.2 | 335.2 |
| Power (Watts CW @ 20 °C, Maximum for non plated outer conductor) | 0.5 GHz | 6.2 | 106.9 | 320.6 | 27.0 | 66.7 |
| | 1.0 GHz | 4.4 | 75.2 | 224.7 | 19.0 | 46.9 |
| | 5.0 GHz | 2.0 | 32.8 | 96.8 | 8.4 | 20.6 |
| | 10.0 GHz | 1.4 | 22.8 | 66.6 | 5.9 | 14.3 |
| | 18.0 GHz | 1.0 | 16.7 | 48.2 | 4.4 | 10.5 |
| | 26.5 GHz | 0.8 | 13.5 | 38.7 | 3.6 | 8.6 |
| | 40.0 GHz | 0.7 | 10.8 | - | 2.9 | 6.8 |
| | 50.0 GHz | 0.6 | - | - | 2.6 | 6.1 |
| | 90.0 GHz | 0.4 | - | - | 1.9 | - |